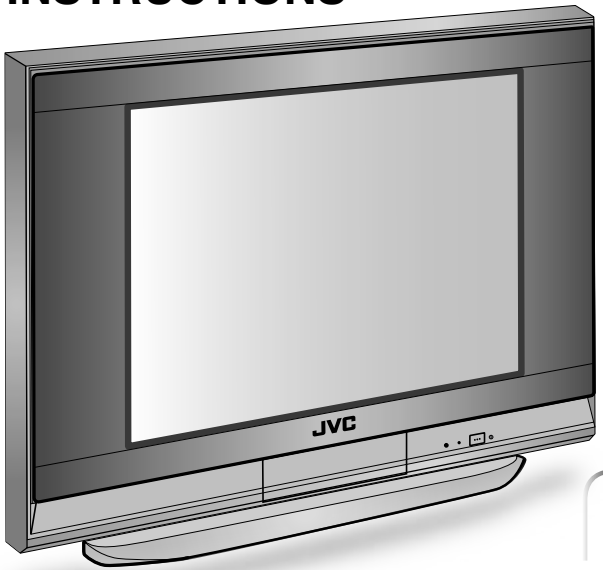
JVC

COLOUR TELEVISION INSTRUCTIONS



This illustration shows AV-21QX28.

The illustrations of AV-21QX28 is used in this instruction manual for explanation purpose. Your TV may not look exactly the same as illustrated.

AV-21BX18
AV-21BX18B
AV-21BX18S
AV-21QX18
AV-21QX28
AV-21SX18
AV-21SX28
AV-29BX18
AV-29BX18B
AV-29QX18
AV-29QX18B
AV-29QX28

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GGT0222-001B-H

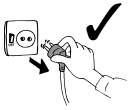
Thank you for buying this JVC colour television.
To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

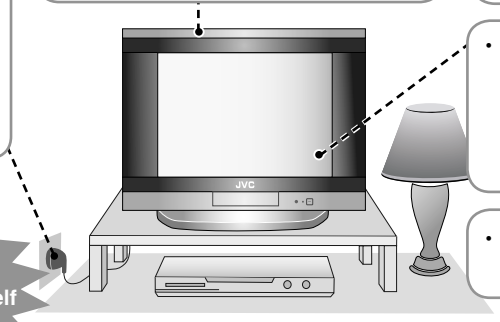
- Operate only from the power source indicated on the rear of the TV.

- Avoid damaging the power cord and main plug. When unplugging the TV, grasp the main plug. Do not pull on the power cord.
- This TV can be turned on/off power by connecting/ disconnecting the AC plug into AC outlet. While this TV is being installed, enough space should be reserved for connection/ disconnecting the AC plug into AC outlet by hand.



- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

- Do not allow objects or liquid into the cabinet openings.

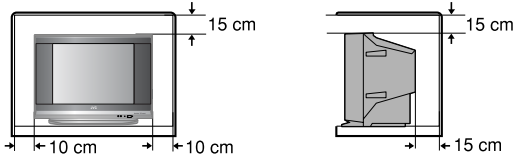


In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

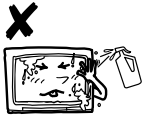
CAUTION

TO ENSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS TV.

- Never block or cover the ventilation openings.
- Never install the TV where good ventilation is unattainable.
- When installing this TV, leave spaces for ventilation around the TV of more than the minimum distances as shown.



- The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.



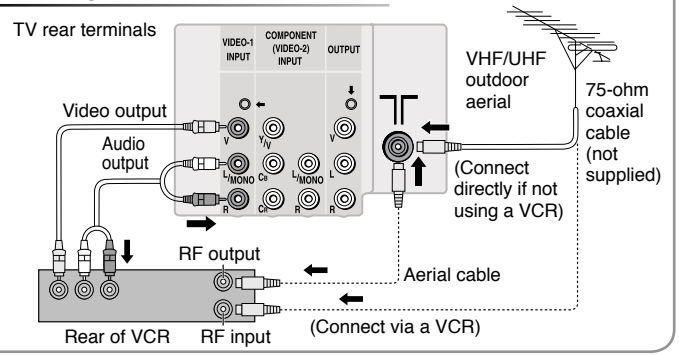
- Never listen to headphones at high volume!
  - It may damage your hearing.

Connections

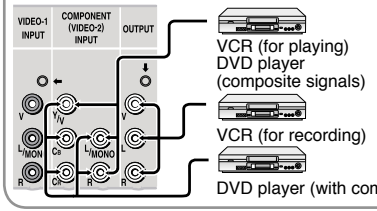
The illustration of AV-21QX28 is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.

CAUTION Ensure to turn off all equipments including the TV before connecting the AC main plug to the AC outlet.

Connecting to the aerial cable and VCR

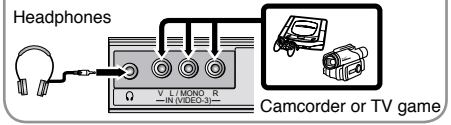


Connecting to the rear component/video input terminal and output terminal



- When connecting to COMPONENT (VIDEO-2) input, depending on the connection, choose the appropriate video input using the menu (➡ page 9).

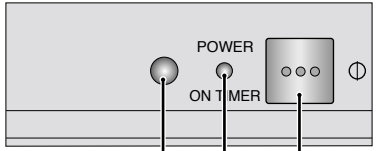
Connecting to the front video input terminal



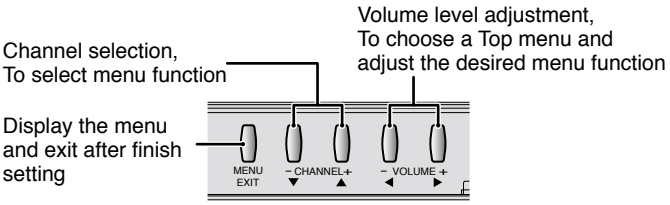
After all the connections have been made, insert the main plug to the AC outlet.

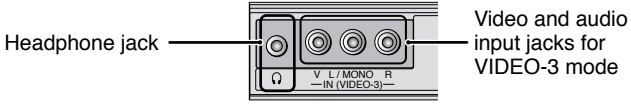
TV buttons and functions

The illustration of AV-21QX28 is shown here for explanation purpose. Your TV may not look exactly the same as illustrated.



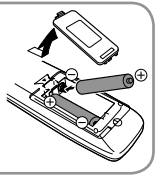
Power lamp - Indicates the TV's status.
No colour: TV's main power is being turned off.
Red: TV's main power is turned on.
Blink: While the TV is in standby mode, ON TIMER function is in used.
While the TV is in turn on mode, OFF TIMER function is in used.


Volume level adjustment, To choose a Top menu and adjust the desired menu function
Channel selection, To select menu function
Display the menu and exit after finish setting
MENU EXIT
CHANNEL
VOLUME



Remote control buttons and basic functions

- Insert two batteries by following the ⊕ and ⊖ polarities and inserting the ⊖ end first.
- Use AA/R6/UM-3 dry cell batteries.
- If the remote control does not work properly, fit new batteries. The supplied batteries are for testing, not regular use.



WARNING:
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

If this symbol is shown, it is only valid in the European Union.

- Display the programme or video terminal number.
- To return to the previous menu

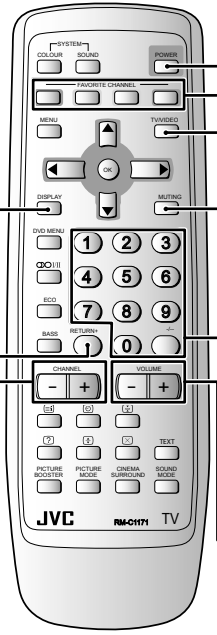
RETURN PLUS function
Return to the frequently viewed channel.

Choose the channel you want to programme

Press and hold ➡ PROGRAMMED!

- When Main Power off, Return plus program is clear. If you want to change channel setting for Return plus program, you can registered the new channel for Return plus program without Main Power off.

RETURN function
If you have not set or have cancelled the RETURN PLUS channel, this will return to the previously viewed channel.



Turn the TV on from standby and vice versa

Programme and recall 4 favourite channels
(colour buttons: red, green, yellow, blue)
Choose the TV channel you wish to programme

➡ PROGRAMMED! ■

Press and hold any button

Repeat to programme another favourite channel.

To recall the favourite channel, press the corresponding colour button.

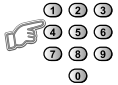
- When the TV is in Text function or MENU mode, the favourite channel function is not available.

TV or video terminal input selection, Exit from the menu

Turn the volume Off / On

Programme number selection
For two digits :

➡



Adjust the volume level, Turn off Muting

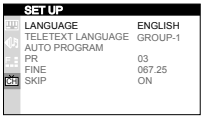
Channel selection
Select the desired channel number.

For Hyper Scan

Press and hold ➡ PR changes without changing the picture. Once you stop pressing CHANNEL+ or CHANNEL– button, picture will change to the desired PR.

Initial Settings

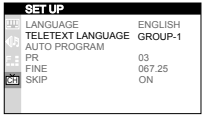
1. Turn on the TV.

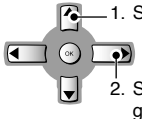


1. Select the desired language by ◄ / ► button.

SET UP menu appears.

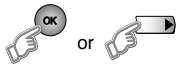
2. Select the teletext language group.

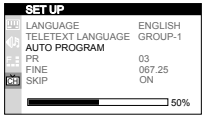




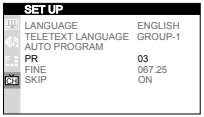
1. Select “TELETEXT LANGUAGE”
2. Select the teletext language group.

3. Automatically register channels. (AUTO PROGRAM)





4. Check what was registered.



MENU or TV/VIDEO

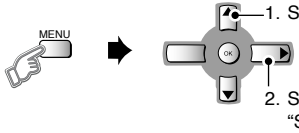
To complete Setup Tour

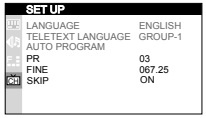
• If you want to edit channel, read the next column.

Registering / Editing channels

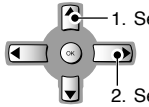
You can edit the channel list or register new channel manually.

1. Display “SET UP” menu.

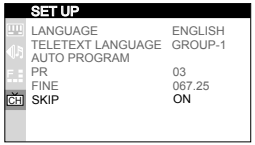




2. Select item.



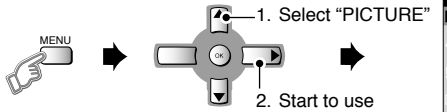
PR	Display the programme number.
FINE	1. You can fine tunning press ◄ / ► button. 2. You can channel manual tunning by press and hold ◄ / ► button on for 3 seconds.
SKIP	SKIP the channel.

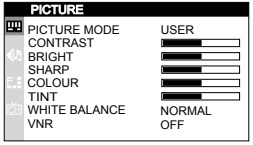


• You can set undesired channels to be skipped. (ON / OFF)

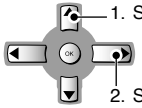
Picture Setting

1. Display “PICTURE” menu.





2. Select item and setting or adjust.

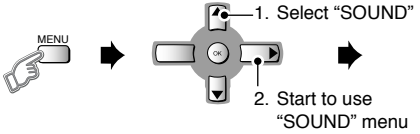


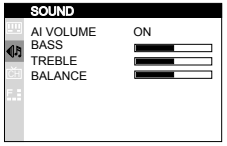
- To return the setting to default, press the Blue button.

PICTURE MODE	You can choose the desired picture setting. VIVID : Heightens contrast and sharpness. SOFT : Softens contrast and sharpness. USER : You can change the picture setting as you like. (CONTRAST, BRIGHT, SHARP, COLOUR, TINT) SHARP : To sharpen the picture. (For DVD mode) CLEAR : To softens the picture. (For DVD mode)
CONTRAST	You can change the contrast of the picture. Lower ⟷ Higher
BRIGHT	You can change the brightness of the picture. Darker ⟷ Brighter
SHARP	You can change the sharpness of the picture. Softer ⟷ Sharper
COLOUR	You can change the colour of the picture. Lighter ⟷ Deeper
TINT	You can change tint of the picture. Reddish ⟷ Greenish
WHITE BALANCE When DVD THEATER STATUS set to ON, WHITE BALANCE is not available in VIDEO-2.	You can change the white balance of the picture to better match the type of video being viewed. NORMAL : Normal white balance. COOL : Bluish white. WARM : Reddish white.
VNR Only available in RF, VIDEO-1 and VIDEO-3.	Reduce the amount of noise in original picture. OFF : VNR is turned off. MIN : Effect of VNR becomes minimum level. MAX : Effect of VNR becomes maximum level. AUTO : Effect of VNR is automatically controlled.

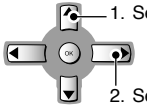
Sound Setting

1. Display “SOUND” menu.





2. Select item and setting or adjust.

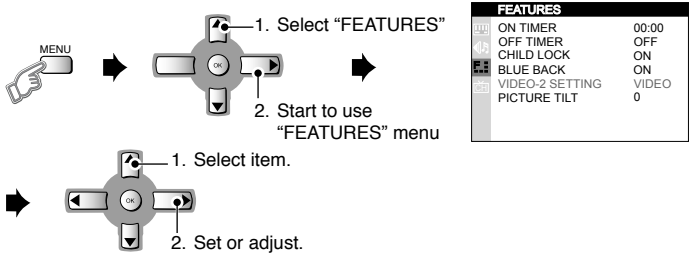


- To return the setting to default, press the Blue button.

AI VOLUME	Prevent sudden increase or decrease of sound when changing channels. (ON / OFF)
BASS	You can change the low tones of sound. (Weaker ⟷ Stronger)
TREBLE	You can change the high tones of sound. (Weaker ⟷ Stronger)
BALANCE	You can change the speaker balance. (Left Stronger ⟷ Right Stronger)

Useful Functions

1. Display “FEATURES” menu.



ON TIMER TV to turn on automatically from standby mode at a set time.	You can set the ON TIMER to your desired period of time. When the ON TIMER is set to other than 00:00, the ON TIMER is activated. You can set the period of time to a maximum of 9 hours in 1 hour intervals. Note : If TV is not in standby mode when ON TIMER is reach the setting time, this case is not available.
OFF TIMER TV to turn off automatically to standby mode after a set time.	You can set the period of time to a maximum of 90 minutes in 15 minutes intervals.
CHILD LOCK	Disables the front control buttons of the TV. (ON / OFF)
BLUE BACK	Display a blue screen and mute the sound when the signal is weak or absent. (ON / OFF)
PICTURE TILT	You can correct the picture tilt caused by the earth’s magnetic force. • Only available in 29B and 29Q series.

	AI ECO SENSOR You can automatically adjust TV screen contrast according to the brightness of your room to suitable level for a better eyecare. (OFF / MODE-1 / MODE-2 / DISPLAY) • Only available in 21S series.
	ECO MODE You can adjust TV screen contrast according to the brightness of your room to suitable level for a better eyecare. (OFF / ECO-1 / ECO-2) • Only available in 21B, 21Q, 29B and 29Q series.
	COLOUR SYSTEM You can select the appropriate colour system when the picture is not clear or no colour appears. (AUTO / PAL/ SECAM / NTSC3.58 / NTSC4.43)
	SOUND SYSTEM You can select an appropriate sound system when abnormal sound occurs even when the picture appears normal. (B/G, I, D/K , M)

Colour and Sound system in your country or region.

Area	Country or Region	Sound system	Colour system
Asia, Middle East	Bahrain , Kuwait, Oman, Qatar, United Arab Emirates, Yemen, Indonesia, Malaysia, Singapore, Thailand, India, etc.	B/G	PAL
	China, Vietnam, etc.	D/K	
	Hong Kong, etc.	I	
	Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	B/G	SECAM
	Philippines, Taiwan, Myanmar, etc.	M	NTSC
Europe	Russia, etc.	D/K	SECAM
	Czech Republic, Poland, etc.		PAL
	Germany , Holland, Belgium , etc.	B/G	
	UK, etc.	I	
Oceania	Australia, New Zealand, etc.	B/G	PAL
Africa	Republic of South Africa, etc.	I	PAL
	Nigeria, etc.	B/G	
	Egypt, Morocco , etc.		SECAM

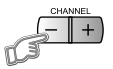
Teletext operation

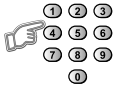
You can watch the Teletext broadcast channel with TEXT functions.

1.

TV mode → TEXT mode → MIX mode

2. Select other Teletext pages.



OR


OR

3.

OR

to return to the TV mode.

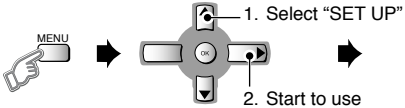
You can also operate the teletext using the following buttons:

(Hold)	Hold a teletext page. To Cancel, press the button again.
(Reveal)	Display the hidden text (example: answers to a quiz). To Cancel, press the button again.
(Size)	Enlarge the teletext display.
(Index)	Return to the index page instantly.
(Cancel)	Watch TV programme while waiting for a teletext page. When the teletext page is found, a page number appears at the upper left of the screen. Press the button to view the teletext page.
(Sub-page)	Sub-page numbers are displayed at the left of the screen. To cancel sub-page function, press the button again.

TELETEXT LANGUAGE

You can set the Teletext language group that corresponds to the programmes.

1. Display “SET UP” menu.



2. Select item.

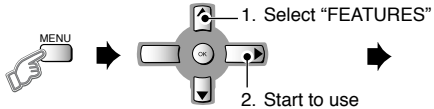
GROUP-1	English, German, Swedish, Finnish, Danish, Hungarian, Italian, French, Spanish, Portuguese, Turkish
GROUP-2	Polish, German, Estonian, Slovenian, Czech, Slovakian, Rumanian
GROUP-3	Polish, German, Estonian, Lettish, Russian, Ukrainian
GROUP-4	English, French, Turkish, Arabic
GROUP-5	English, French, Turkish, Farsi

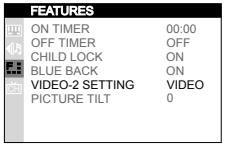
• Only available AV-21QX28, AV-21SX28 and AV-29QX28

VIDEO-2 SETTING

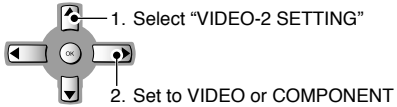
Switch between video and component signal (VIDEO / COMPONENT)

1. Select “FEATURES” menu.





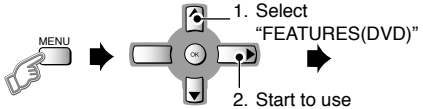
2. Select “VIDEO-2 SETTING”. Then set to VIDEO or COMPONENT.

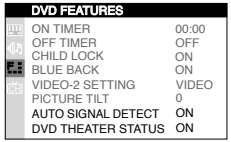


Function for watching DVDs

Available for component signal only.

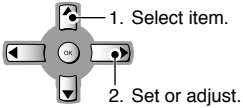
1. Select “FEATURES(DVD)” menu.





- You can operate the DVD function by press DVD MENU button.

2. Select item and setting.



AUTO SIGNAL DETECT Automatically change the input mode to Video-2 when the DVD input signal is detected. (ON / OFF)

DVD THEATER STATUS Enjoy an enhanced picture quality for movie playback in a dark room, like watching a movie in the theater. (ON / OFF)

- When you set DVD THEATER STATUS set to ON, AI ECO SENSOR / ECO MODE and WHITE BALANCE adjustment become unavailable. Only available in VIDEO-2 mode.

Troubleshooting

If a problem occurs when you are using the TV, check the below troubleshooting guide before calling for repair.

No picture, no sound	Page
Deactivate the BLUE BACK function if it is turned on.	P. 7
Choose the appropriate sound system. Refer to “SOUND SYSTEM”.	
Snowy picture	
Check the aerial cable and TV connections.	P. 3
Stripes appear on the picture	
Interference caused by devices such as an amplifier, personal computer, or a hair drier. Move it away from your TV.	--
Double-pictures (ghosting) occur	
Interference occurs caused by signal reflecting from mountains or building. Try to adjust the aerial’s direction or use another antenna.	--
Poor picture	
Choose the appropriate colour system. Refer to “COLOUR SYSTEM”.	P. 7
Adjust the COLOUR or BRIGHT setting. Refer to “PICTURE MENU”.	P. 6
White and bright still image look as if it was coloured	
Inevitable phenomenon due to the nature of the picture tube. This is not a malfunction.	--
Top of the image from software products or video tape is distorted	
Due to the condition of the video signal, the image was not properly recorded. This is not a malfunction.	--
Poor sound	
Adjust the sound frequency properly. Refer to “SOUND SYSTEM”.	P. 7
Cannot operate the remote control	
The batteries may be exhausted. Replace with new batteries. Ensure that you are operating the remote control at less than seven meters from the front of your TV.	P. 4
Cannot operate the menus	
Press TV/VIDEO button to return to TV mode and try operating the menus.	--
Cannot operate the front control buttons	
Deactivate the CHILD LOCK function if it is turned on.	P. 7

Colour patches appear at the corner of the screen	Page
This maybe due to magnetized device such as a speaker placed near to your TV. Move it away from your TV. Alternatively, you can also use the magnetic shielded speaker.	--
Picture is tilted	
This maybe due to the earth magnetism. To “PICTURE TILT” to correct the tilt.	P. 7
Image takes a short period to be displayed	
Image required time to stabilize before display. This is not a malfunction.	--
TV may emit crackling sound	
This is due to a sudden change in temperature and it is not a malfunction. If the crackling sound is too frequent, request your service technician for inspection.	--
Feel a slight electric shock when touching the TV screen	
This is due to the static electricity of the picture tube and it will not harm the human body. This is not a malfunction.	--
AUTO SIGNAL DETECT does not work	
Set the AUTO SIGNAL DETECT function to ON. Turn the VCR or DVD Player off and on again. Check that the video cable connection on VIDEO-2 is properly connected.	P. 9 -- --
Suddenly, the TV input changes to VIDEO-2	
Check whether the AUTO SIGNAL DETECT function is on or off. AUTO SIGNAL DETECT function may work when you operate the VCR or DVD player even if you do not make it to playback.	P. 9 --
AUTO SIGNAL DETECT does not work correctly	
Check the video cable connection. Some VCR or DVD player may output the video signal discontinuously. If this happens, AUTO SIGNAL DETECT function cannot work correctly.	--

Specification

TV RF systems		B, G, I, D, K, M
Colour systems		PAL, SECAM, NTSC 3.58 MHz, NTSC 4.43 MHz
Receiving channels		VHF low channel (VL), VHF high channel (VH), UHF channel (U) Receives cable channels in mid band, super band and hyper band.
Power requirements		AC 110 to 240 V, 50 Hz / 60 Hz
External input / output	VIDEO-1	VIDEO input, AUDIO L/R input
	VIDEO-2/COMPONENT	VIDEO input, AUDIO L/R input, COMPONENT VIDEO ($Y/C_B/C_R$) input
	VIDEO-3	VIDEO input, AUDIO L/R input
	OUTPUT	VIDEO output, AUDIO L/R output
	Headphone jack	Stereo mini jack (3.5 mm diameter)
Teletext system		FLOF (Fastext), WST (World System Teletext)

Design and specifications subject to change without notice.

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